

FIG.1

GCCAGGCACCATGGTGCAGAAAGTCGCGCAACGGCGGGCGTATATSCCCGGCCCCGAG
5 CGGGGAGAAAGAAGCTGAAGGTGGGCTTCGTGGGGCTGGACCCCGGCGCGCCCGA
CTCCACCCGGGACGGGGCGCTGCTGATCGCCGGCTCCGAGGCCCCCAAGCGCGG
CAGCATCCTCAGCAAACCTCGCGCGGGCGGGCGCGGGCGCCGGGAAGCCCCCAA
GCGCAACGCCTTCTACCGCAAGCTGCAGAATTTCTCTACAACGTGCTGGAGCGG
CCGCGCGGGCTGGGCGTTCATCTACCACGCCTACGTGTTCTCTGGTTTTCTCCTG
10 CCTCGTGCTGTCTGTGTTTTCCACCATCAAGGAGTATGAGAAGAGCTCGGAGGGG
GCCCTCTACATCCTGGAAATCGTGACTATCGTGGTGTTTGGCGTGAGTACTTCG
TGCGGATCTGGGCCGCAAGGCTGCTGCTGCCGGTACCGTGGCTGGAGGGGGCGGC
TCAAGTTTGCCCGGAAACCGTTCTGTGTGATTGACATCATGGTGCTCATCGCCTC
CATTGCGGTGCTGGCCGCCGGCTCCCAGGGCAACGTCTTTGCCACATCTGCGCTC
15 CGGAGCCTGCGCTTCCTGCAGATTCTGCGGATGATCCGCATGGACCGGCGGGGA
GGCACCTGGAAGCTGCTGGGCTCTGTGGTCTATGCCACAGCAAGGAGCTGGTC
ACTGCCTGGTACATCGGCTTCCTTTGTCTCATCCTGGCCTCGTTCCTGGTGTACTT
GGCAGAGAAGGGGGAGAACGACCACTTTGACACCTACGCGGATGCACTCTGGTG
GGGCCTGATCACGCTGACACCATTTGGCTACGGGGACAAGTACCCCCAGACCTGG
20 AACGGCAGGCTCCTTGCGGCAACCTTCACCCTCATCGGTGTCTCCTTCTTCGCGCT
GCCTGCAGGCATCTTGGGGTCTGGGTTTGGCCTGAAGGTTTCAGGAGCAGCACAG
GCAGAAGCACTTTGAGAAGAGGCGGAACCCGGCAGCAGGCCTGATCCAGTCGGC
CTGGAGATTCTACGCCACCAACCTCTCGCGCACAGACCTGCACTCCACGTGGCAG
TACTACGAGCGAACGGTCACCGTGCCCATGTACAGTTCGCAAACCTCAAACCTACG
25 GGGCCTCCAGACTTATCCCCCGCTGAACCAGCTGGAGCTGCTGAGGAACCTCAA
GAGTAAATCTGGACTCGCTTTCAGGAAGGACCCCCCGCCGGAGCCGTCTCCAAG
CCAGAAGGTCAGTTTGAAAGATCGTGTCTTCTCCAGCCCCCGAGGCGTGGCTGCC
AAGGGGAAGGGGTCCCCGCAGGCCCAGACTGTGAGGCGGTCACCCAGCGCCGAC
CAGAGCCTCGAGGACAGCCCCAGCAAGGTGCCCAAGAGCTGGAGCTTCGGGGAC
30 CGCAGCCGGGCACGCCAGGCTTTCGCATCAAGGGTGCCGCGTCACGGCAGAAC
TCAGAAGAAGCAAGCCTCCCCGGAGAGGACATTGTGGATGACAAGAGCTGCCCC

TGCGAGTTTGTGACCGAGGACCTGACCCCGGGCCTCAAAGTCAGCATCAGAGCC
GTGTGTGTCATGCGGTTCTTGGTGTCCAAGCGGAAGTTCAAGGAGAGCCTGCGGC
CCTACGACGTGATGGACGTCATCGAGCAGTACTCAGCCGGCCACCTGGACATGCT
GTCCCGAATTAAGAGCCTGCAGTCCAGAGTGGACCAGATCGTGGGGCGGGGCCC
5 AGCGATCACGGACAAGGACCGCACCAAGGGCCCGGCCGAGGCGGAGCTGCCCCG
AGGACCCCAGCATGATGGGACGGCTCGGGAAGGTGGAGAAGCAGGTCTTGTCCA
TGGAGAAGAAGCTGGACTTCTGGTGAATATCTACATGCAGCGGATGGGCATCC
CCCCGACAGAGACCGAGGCCTACTTTGGGGCCAAAGAGCCGGAGCCGGCGCCGC
CGTACCACAGCCCGGAAGACAGCCGGGAGCATGTGACAGGCACGGCTGCATTG
10 TCAAGATCGTGCCTCCAGCAGCTCCACGGGCCAGAAGAAGTCTCGGCGCCCC
CGGCCGCGCCCCCTGTCCAGTGTCCGCCCTCCACCTCCTGGCAGCCACAGAGCCA
CCCGCGCCAGGGCCACGGCACCTCCCCCGTGGGGGACCACGGCTCCCTGGTGCG
CATCCCGCCGCGCCTGCCACGAGCGGTGCTGTCCGCCTACGGCGGGGGGCAA
CCGCGCCAGCATGGAGTTCCTGCGGCAGGAGGACACCCCGGGCTGCAGGCCCCC
15 CGAGGGGACCCTGCGGGACAGCGACACGTCCATCTCCATCCCGTCCGTGGACCA
CGAGGAGCTGGAGCGTTCCTTCAGCGGCTTCAGCATCTCCAGTCCAAGGAGAA
CCTGGATGCTCTCAACAGCTGCTACGCGGCCGTGGCGCCTTGTGCCAAAGTCAGG
CCCTACATTGCGGAGGGAGAGTCAGACACCGACTCCGACCTCTGTACCCCGTGCG
GGCCCCCGCCACGCTCGGCCACCGGCGAGGGTCCCTTTGGTGACGTGGGCTGGG
20 CCGGGCCAGGAAGTGAGGGCGGCGCTGGGCCAGTGGACCCGCCCGCGGCCCTCC
TCAGCACGGTGCCTCCGAGGTTTTGAGGCGGGAACCCTCTGGGGCCCTTTTCTTA
CAGTAACTGAGTGTGGCGGGAAGGGTGGGCCCTGGAGGGGGCCCATGTGGGCTGA
AGGATGGGGGCTCCTGGCAGTGACCTTTTACAAAAGTTATTTTCCAACAGGGGCT
GGAGGGCTGGGCAGGGCCCTGTGGCTCCAGGAGCAGCGTGCAGGAGCAAGGCTG
25 CCCTGTCCACTCTGCTCAGGGCCGCGGCCGACATCAGCCCGGTGTGAGGAGGGG
CGGGAGTGATGACGGGGTGTGTCAGCGTGGCAACAGGCGGGGGGTTGTCTCAG
CCGAGCCCAGGGGAGGCACAAAGGGCAGGCCTGTTCCCTGAGGACCTGCGCAAA
GGGCGGGCCTGTTTGGTGAGGACCTGCGGCCTTGGGTC

FIG.2

5 ATGGTGCAGAAGTCGCGCAACGGCGGCGTATACCCCGGCCCCGAGCGGGGAGAAG
AAGCTGAAGGTGGGCTTCGTGGGGCTGGACCCCGGCGCGCCCGACTCCACCCGG
GACGGGGCGCTGCTGATCGCCGGCTCCGAGGCCCCCAAGCGCGGCAGCATCCTC
AGCAAACCTCGCGCGGGCGGCGCGGGCGCCGGGAAGCCCCCAAGCGCAACGC
CTTCTACCGCAAGCTGCAGAATTTCTCTACAACGTGCTGGAGCGGCCGCGCGGC
10 TGGGCGTTCATCTACCACGCCTACGTGTTCTCTGGTTTTCTCCTGCCTCGTGCT
GTCTGTGTTTTCCACCATCAAGGAGTATGAGAAGAGCTCGGAGGGGGGCCCTCTAC
ATCCTGGAAATCGTGACTATCGTGGTGTGTTGGCGTGGAGTACTTCGTGCGGATCT
GGGCCGCGAGGCTGCTGCTGCCGGTACCGTGGCTGGAGGGGGCGGCTCAAGTTTG
CCCGGAAACCGTTCTGTGTGATTGACATCATGGTGCTCATCGCCTCCATTGCGGT
15 GCTGGCCGCGGCTCCCAGGGCAACGTCTTTGCCACATCTGCGCTCCGGAGCCTG
CGCTTCCTGCAGATTCTGCGGATGATCCGCATGGACCGGCGGGGAGGCACCTGG
AAGCTGCTGGGCTCTGTGGTCTATGCCCACAGCAAGGAGCTGGTCACTGCCTGGT
ACATCGGCTTCCTTTGTCTCATCCTGGCCTCGTTCCTGGTGTACTTGGCAGAGAAG
GGGGAGAACGACCACTTTGACACCTACGCGGATGCACTCTGGTGGGGCCTGATC
20 ACGCTGACCACCATTGGCTACGGGGACAAGTACCCCCAGACCTGGAACGGCAGG
CTCCTTGCGGCAACCTTCACCCTCATCGGTGTCTCCTTCTTCGCGCTGCCTGCAGG
CATCTTGGGGTCTGGGTTTGCCCTGAAGGTTCAAGGAGCAGCACAGGCAGAAGCA
CTTTGAGAAGAGGCGGAACCCGGCAGCAGGCCTGATCCAGTCGGCCTGGAGATT
CTACGCCACCAACCTCTCGCGCACAGACCTGCACTCCACGTGGCAGTACTACGAG
25 CGAACGGTCACCGTGCCCATGTACAGTTCGCAAACCTCAAACCTACGGGGCCTCCA
GACTTATCCCCCGCTGAACCAGCTGGAGCTGCTGAGGAACCTCAAGAGTAAAT
CTGGACTCGCTTTCAGGAAGGACCCCCCGCCGGAGCCGTCTCCAAGCCAGAAGG
TCAGTTTGAAAGATCGTGTCTTCTCCAGCCCCCGAGGCGTGGCTGCCAAGGGGAA
GGGGTCCCCGCGAGGCCAGACTGTGAGGCGGTCACCCAGCGCCGACCAGAGCCT
30 CGAGGACAGCCCCAGCAAGGTGCCCAAGAGCTGGAGCTTCGGGGACCGCAGCCG
GGCACGCCAGGCTTTCGCGCATCAAGGGTGCCGCGTCACGGCAGAACTCAGAAGA

AGCAAGCCTCCCCGGAGAGGACATTGTGGATGACAAGAGCTGCCCCCTGCGAGTT
TGTGACCGAGGACCTGACCCCGGGCCTCAAAGTCAGCATCAGAGCCGTGTGTGT
CATGCGGTTTCCTGGTGTCCAAGCGGAAGTTCAAGGAGAGCCTGCGGGCCCTACGA
CGTGATGGACGTCATCGAGCAGTACTCAGCCGGCCACCTGGACATGCTGTCCCGA
5 ATTAAGAGCCTGCAGTCCAGAGTGGACCAGATCGTGGGGCGGGGCCCAGCGATC
ACGGACAAGGACCGCACCAAGGGCCCCGGCCGAGGCGGAGCTGCCCCGAGGACCC
CAGCATGATGGGACGGCTCGGGAAGGTGGAGAAGCAGGTCTTGTCCATGGAGAA
GAAGCTGGACTTCCTGGTGAATATCTACATGCAGCGGATGGGCATCCCCCGACA
GAGACCGAGGCCTACTTTGGGGCCAAAGAGCCGGAGCCGGCGCCGCGTACCAC
10 AGCCCGGAAGACAGCCGGGAGCATGTCGACAGGCACGGCTGCATTGTCAAGATC
GTGCGCTCCAGCAGCTCCACGGGGCCAGAAGAACTTCTCGGCGCCCCCGGCCGCG
CCCCCTGTCCAGTGTCCGCCCTCCACCTCCTGGCAGCCACAGAGCCACCCGCGCC
AGGGCCACGGCACCTCCCCCGTGGGGGACCACGGCTCCCTGGTGCGCATCCCGC
CGCCGCCTGCCCACGAGCGGTCGCTGTCCGCCTACGGCGGGGGCAACCGCGCCA
15 GCATGGAGTTCCTGCGGCAGGAGGACACCCCGGGCTGCAGGCCCCCGAGGGGA
CCCTGCGGGACAGCGACACGTCCATCTCCATCCCGTCCGTGGACCACGAGGAGC
TGGAGCGTTCCTTCAGCGGCTTCAGCATCTCCAGTCCAAGGAGAACCTGGATGC
TCTCAACAGCTGCTACGCGGCCGTGGCGCCTTGTGCCAAAGTCAGGCCCTACATT
GCGGAGGGAGAGTCAGACACCGACTCCGACCTCTGTACCCCGTGCGGGCCCCCG
20 CCACGCTCGGCCACCGGCGAGGGTCCCTTTGGTGACGTGGGCTGGGCGGGGCC
AGGAAGTGA

Human Brain-Derived Potassium Channel DNA Structural Region · SEQ ID NO:2

FIG.3

MVQKSRNGGVYPGPSGEKKLVGFVGLDPGAPDSTRDGALLIAGSEAPKRGSIKSKP
5 RAGGAGAGKPPKRNAFYRKLQNFLYNVLERPRGWAFIYHAYVFLLVFSCLVLSVFS
TIKEYEKSSEGALYILEIVTIVVFGVEYFVRIWAAGCCCRYRGWRGRLKFARKPFCVI
DIMVLIASIAVLAAGSQGNVFATSALRSLRFLQILRMIRMDRRGGTWKLLGSVVYAH
SKELVTAWYIGFLCLILASFLVYLAEKGENDHFDYADALWWGLITLTTIGYGDKYP
QTNWNGRLLAATFTLIGVSFFALPAGILGSGFALKVQEQRQKHFEKRRNPAAGLIQS
10 AWRFYATNLSRTDLHSTWQYYERTVTVPMYSSQTQTYGASRLIPPLNQLELLRNLS
KSGLAFRKDPPPEPSQKVSLKDRVFSSPRGVAAGKKGSPQAQTVRRSPSADQSLE
DSPSKVPKSWSGDRSRARQAFRIKGAASRQNSEEASLPGEDIVDDKSCPCFVTEDL
TPGLKVSIRAVCVMRFLVSKRKFKESLRPYDVM DVIEQYSAGHLDMLSRIKSLQSRV
DQIVGRGPAITDKDRTKGPAEAELPEDPSMMGRLGKVEKQVLSMEKKLDFLVNIYM
15 QRMGIPPTETEAYFGAKEPEPAPPYHSPEDSREHVDRHGCIVKIVRSSSSTGQKNFSAP
PAAPPVQCPPSTSWQPQSHPRQGHGTSPVGDHGS�VRIPPPAHERSLSAYGGGNRAS
MEFLRQEDTPGCRPPEGTLRDS DTSISIPSDHEELERSFSGFSISQSKENLDALNSCYA
AVAPCAKVRPYIAEGESDTDSLCTPCGPPPRSATGEGPFGDVGWAGPRK*

20 Human Brain-Derived Potassium Channel Peptide [Residue Sequence] · SEQ ID NO:3

FIG.4

CGCGGAGCGAGGTGGCCGCAGCGTCTCCGCGCGCGGCCCAAGCCCGGCAGGAGT
5 GCGGAACCGCCGCCTCGGCCATGCGGCTCCCGGCCGGGGGGCCTGGGCTGGGGC
CCGCGCCGCCCCCGCGCTCCGCCCCCGCTGAGCCTGAGCCCGACCCGGGGCGC
CTCCCGCCAGGCACCATGGTGCAGAAGTCGCGCAACGGCGGCGTATACCCCGGC
CCGAGCGGGGAGAAGAAGCTGAAGGTGGGCTTCGTGGGGCTGGACCCCGGCGCG
CCCGACTCCACCCGGGACGGGGCGCTGCTGATCGCCGGCTCCGAGGCCCCCAAG
10 CGCGGCAGCATCCTCAGCAAACCTCGCGCGGGCGGGCGCGGGCGCCGGGAAGCCC
CCCAAGCGCAACGCCTTCTACCGCAAGCTGCAGAATTTCTCTACAACGTGCTGG
AGCGGCCGCGCGGCTGGGCGTTCATCTACCACGCCTACGTGTTCTCCTGGTTTT
CTCCTGCCTCGTGCTGTCTGTGTTTTCCACCATCAAGGAGTATGAGAAGAGCTCG
GAGGGGGCCCTCTACATCCTGGAATCGTGACTATCGTGGTGTTTGGCGTGGAGT
15 ACTTCGTGCGGATCTGGGCCGCAGGCTGCTGCTGCCGGTACCGTGGCTGGAGGG
GGCGGCTCAAGTTTGCCCGGAAACCGTTCTGTGTGATTGACATCATGGTGCTCAT
CGCCTCCATTGCGGTGCTGGCCGCGGGCTCCAGGGCAACGTCTTTGCCACATCT
GCGCTCCGGAGCCTGCGCTTCCTGCAGATTCTGCGGATGATCCGCATGGACCGGC
GGGGAGGCACCTGGAAGCTGCTGGGCTCTGTGGTCTATGCCACAGCAAGGAGC
20 TGGTCACTGCCTGGTACATCGGCTTCCTTTGTCTCATCCTGGCCTCGTTCCTGGTG
TACTTGGCAGAGAAGGGGGAGAACGACCACTTTGACACCTACGCGGATGCACTC
TGGTGGGGCCTGATCACGCTGACCACCATTTGGCTACGGGGACAAGTACCCCCAG
ACCTGGAACGGCAGGCTCCTTGCGGCAACCTTCACCCTCATCGGTGTCTCCTTCT
TCGCGCTGCCTGCAGGCATCTTGGGGTCTGGGTTTGCCCTGAAGGTTTCAGGAGCA
25 GCACAGGCAGAAGCACTTTGAGAAGAGGCGGAACCCGGCAGCAGGCCTGATCCA
GTCGGCCTGGAGATTCTACGCCACCAACCTCTCGCGCACAGACCTGCACTCCACG
TGGCAGTACTACGAGCGAACGGTCACCGTGCCCATGTACAGGTACCGCCGCCGG
GCACCTGCCACCAAGCAACTGTTTCATTTTTTATTTTCCATTTGTTCTTAAACCCC
ACTTTTTGTTGTTTCATTATTTTGATTGATTTTTTTCTTTAAAATGTATTTTTCACA
30 AAGG

-113-

Yokoyama *et al* cDNA Sequence (HNSPC) (Genbank accession # D82346)

SEQ ID NO:4

5

THE

FIG.5

MVQKSRNGGVYPGPSGEKKLVGFVGLDPGAPDSTRDGALLIAGSEAPKRGSIKSKP
5 RAGGAGAGKPPKRNAFYRKLQNFLYNVLERPRGWAFIYHAYVFLLVFSCLVLSVFS
TIKEYEKSSEGALYILEIVTIVVFGVEYFVRIWAAGCCCRYRGWRGRLKFARKPFCVI
DIMVLIASIAVLAAGSQGNVFATSALRSLRFLQILRMIRMDRRGGTWKLLGSVVYAH
SKELVTAWYIGFLCLILASFLVYLAEKGENDHFDYADALWWGLITLTTIGYGDKYP
QTNWNGRLLAATFTLIGVSFFALPAGILGSGFALKVQEQHRQKHFEKRRNPAAGLIQS
10 AWRFYATNLSRTDLHSTWQYYERTVTVP MYRYRRRAPATKQLFHFLFSICS*

Yokoyama *et al* amino acid sequence (HNSPC) · SEQ ID NO:5

FIG.6

METRGSRLTGGQGRVYNFLERPTGWKCFVYHFAVFLIVLVCLIFSVLSTIEQYAALAT
5 GTLFWMEIVLVVFFGTEYVVRLWSAGCRSKYVGLWGRLRFARKPISIIDLIVVASM
VVL CVGSKGQVFATSAIRGIRFLQILRMLHVDRQGGTWRL LGSV VFIHRQELITTL YI
GFLGLIFSSYFVYLAEKDAVNESGRVEFGSYADALWWGVVTVTTIGYGDKVPQTWV
GKTIASCFSVFAISFFALPAGILGSGFALKVQQKQRQKHFN RQIPAAASLIQTAWRCY
AAENPDSSTWKIYIRKAPRSHTLLSPSPKPKKSVVVKKKKFKL DKDNGVTPGEKMLT
10 VPHITCDPPEERRLDHFSVDGYDSSVRKSPTLLEVSM PHFMRTNSFAEDLDLEGETLL
TPITHISQLREHHRATIKVIRRMQYFVAKKKFQQARKPYDVRDVIEQYSQGHLNLMV
RIKELQRRLDQSIGKPSLFISVSEKSKDRGSNTIGARLNRVEDKVTQLDQRLALITDML
HQLLSLHGGSTPGSGGPPREGGAHITQPCGSGGSVDPELFLPSNTLPTYEQLTVPRRG
PDEGS

15

Sanguinetti *et al* amino acid sequence (HKvLQT1) (Genbank Accession U40990, U71077)

SEQ ID NO:6

Page 1

[illegible]

FIG.7 (p.2)

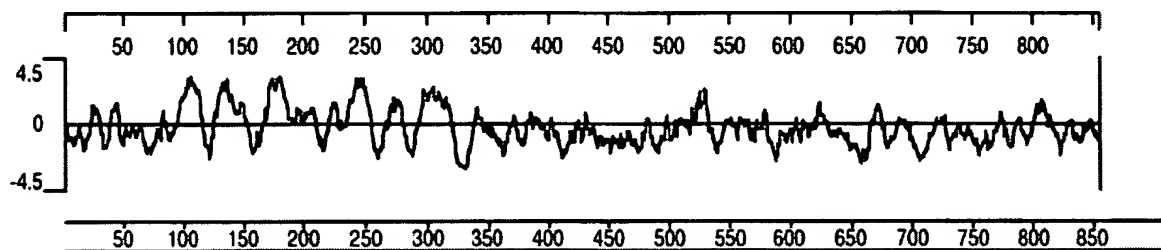
Page 2

Decoration 'Decoration #1': Box residues that match the Consensus exactly.

FIG.8

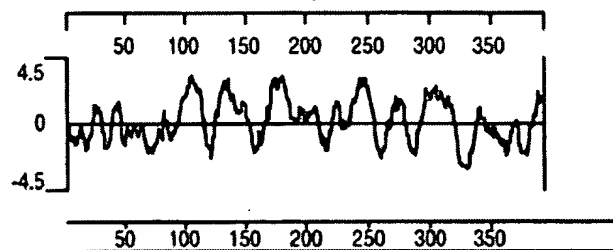
SEQ ID NO 3.pad

Monday, November 24, 1997 11:22 AM



SEQ ID NO 5.pad

Monday, November 24, 1997 11:21 AM



SEQ ID NO 6.pad

Monday, November 24, 1997 11:21 AM

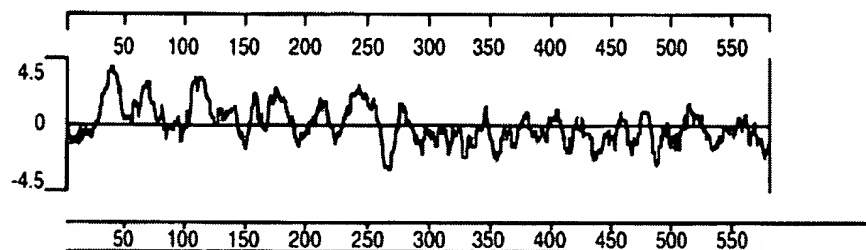
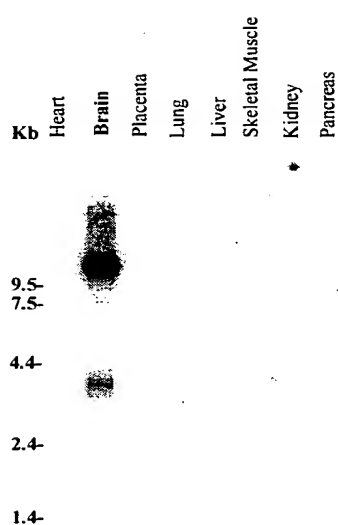
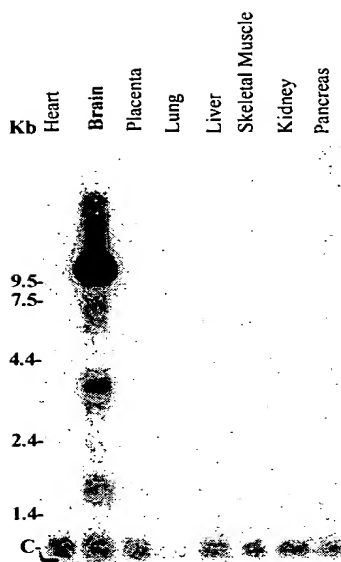


FIG.9

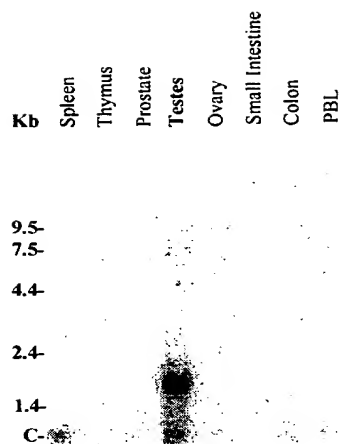
5



Multiple Tissue Northern I
Probe 1



Multiple Tissue Northern I
Probe 2

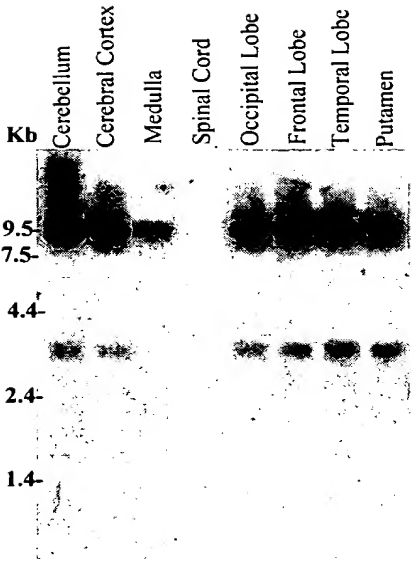


Multiple Tissue Northern II
Probe 2

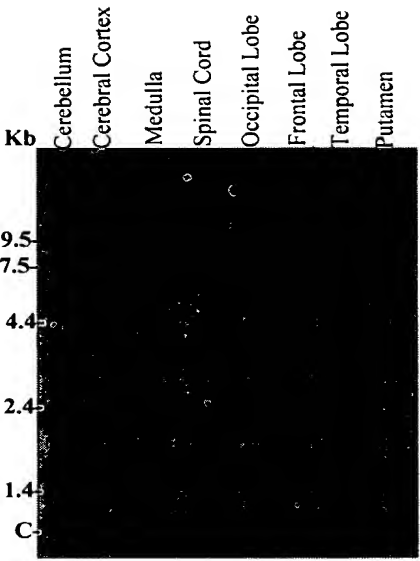
PBL=Peripheral Blood Leukocytes
C=700 bp housekeeping cyclophilin transcript, used for
normalization of RNA loading

FIG.10

5



Human Brain Northern
Probe 1

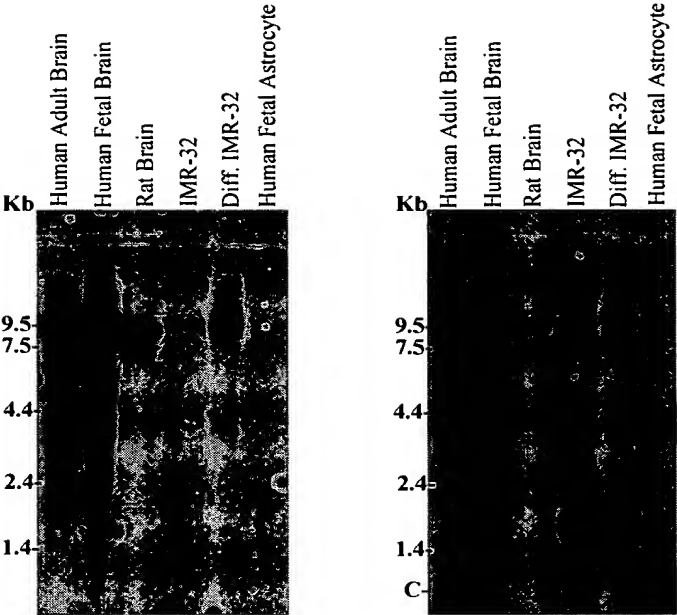


Human Brain Northern
Probe 2

C=700 bp housekeeping cyclophilin transcript, used for
normalization of RNA loading

FIG.11

5



Brain Tissue and Cell Panel Northern

Probe 1

Probe 2

C=700 bp housekeeping cyclophilin transcript, used for normalization of RNA loading

FIG.12

5

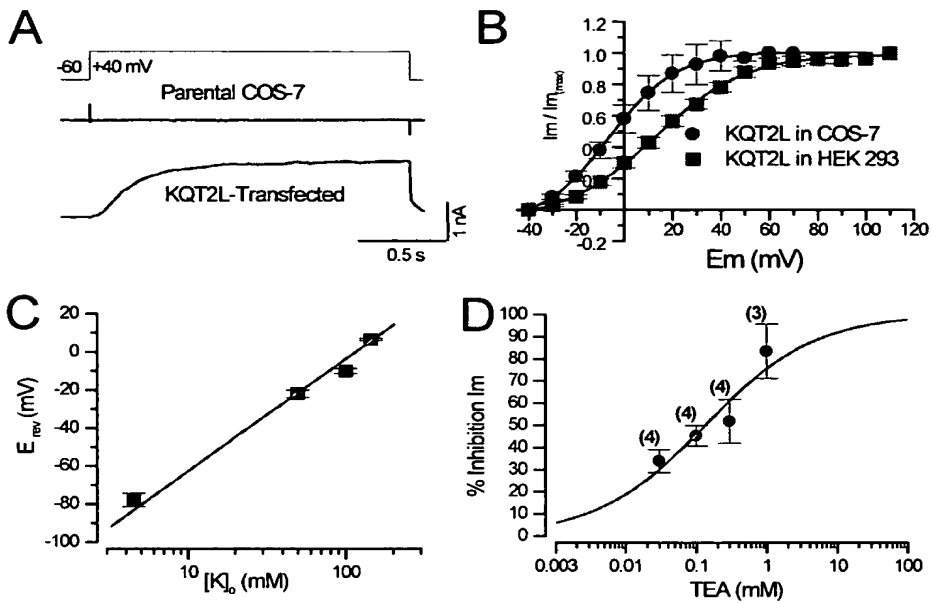


FIG.13

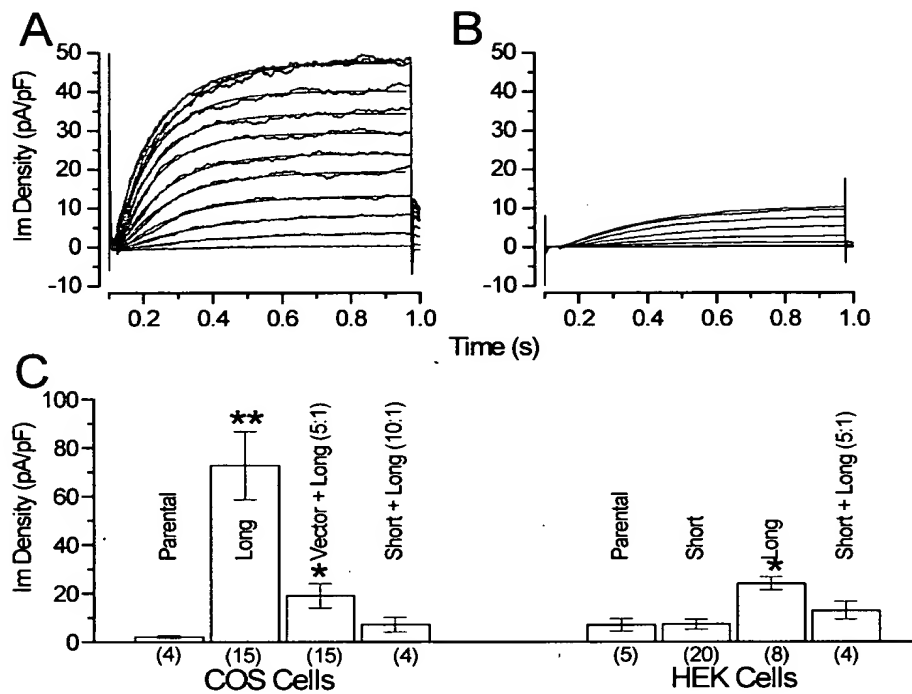


FIG.14

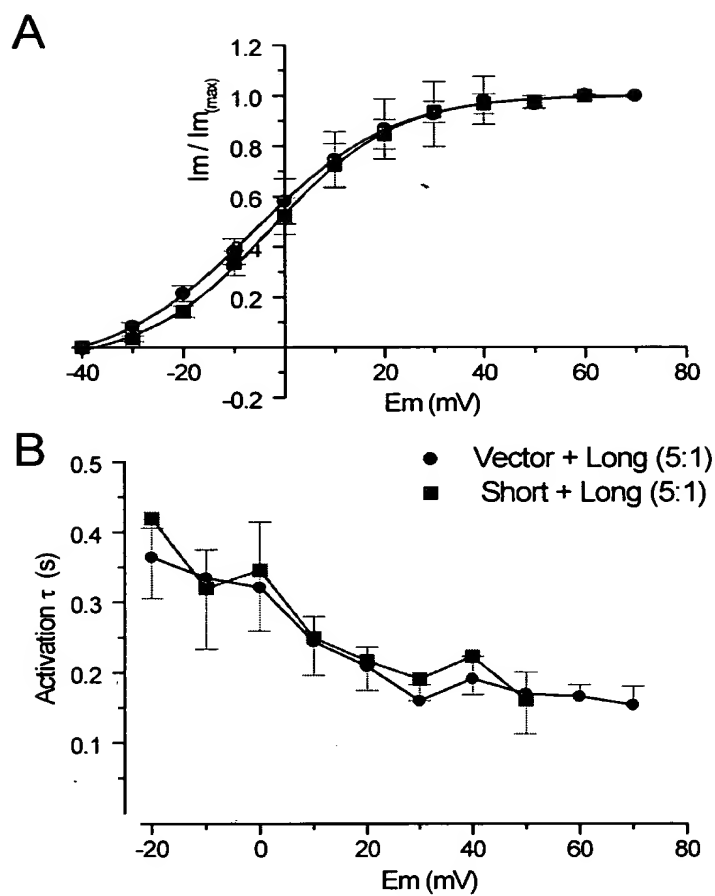


FIG.15

5

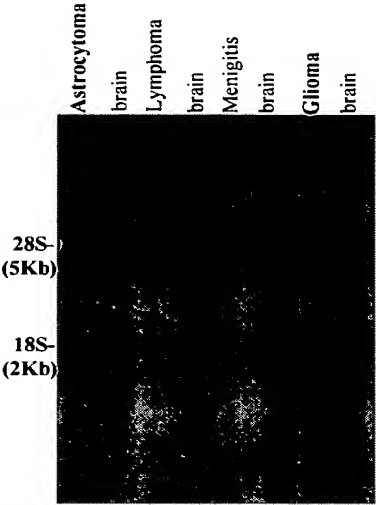


FIG.16

5

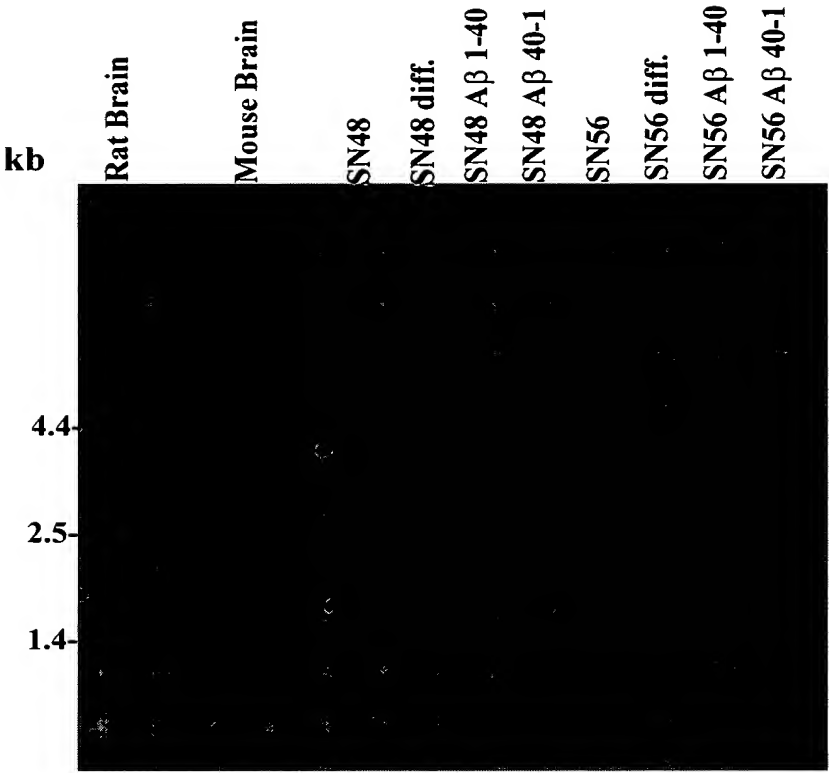


FIG.17

5 MGLKARRAAGAAGGGGGEGGGGGGGAANPAGGDSAVAGDEERKVGLAPGDVEQ
VTLALGTGADKDGTLLEGGGREGQRTPQGIGLLAKTPLSRPVKRNNAKYRRIQT
LIYDALERPRGWALLYHALVFLIVLGCLILAVLTTFKEYETVSGDWLLVPETFAIFIG
AEFALRIWAAGCCCRYKGWRGRLKFARKPLCMLDIFVLIASVPVAVGNQGNVLAT
SLRSLRFLQILRMLRMDRRGGTWKLLGSAICAHSKELITAWYIGFLTILSSFLVYLVE
10 KDVPEMDAQGEEMKEEFETYADALWWGLITLATIGYGDKTPKTWEGRLIAATFSLI
GVSFFALPAGILGSGLALKVQEQRQKHFEKRRKPAAELIQAAWRYATNNRLDLV
ATWRFYESVVSFPFRKEQLEAAASQKLGLLDRVRLSNPRGSNTKGKLFPLNVDAL
EESPSKEPKPVGLNNKERFRTAFRMKAYAFWQSSDAGTGDPMTEDRGYGNDFLIE
DMIPTLKAIRAVRILQFRLYKKKFKETLRPYDVKDVEQYSAGHLDMLSRIKYLQTR
15 IDMIPTPGPPSTPKHKKSQKGSFTYPSQQSPRNEPYVARAATSETEDQSMMGKFVK
VERQVHDMGKKLDFLVDMMHMQHMERLQVHVTEYYPTKGASSPAEGEKKEDNRY
DLKTHICNYSESGPPDPYPYFQVPIQVPGYFFAHDPVKLTRGGPSSTKAQANLPSS
GSTYAEPTVLPILTLLDSCVSYHSQTELQGPYSDHISPRQRRSITRDSDTPLSLMSVN
HEELERSPSGFSISQDRDDYVFGPSGGSSWMREKRYLAEGETDTPFTPSGSMMPM
20 SSTGDGISDSIWTPSNKPT

SEQ ID NO:7 · Rat KvQT3 (GENBANK Accession Number: AF087454)

25

GDVEQVTLALGAGADKDGTLLEGGGRDEGQRTPQGIGLLAKTPLSRPVKRNNAK
30 YRRIQTLIYDALERPRGWALLYHALVFLIVLGCLILAVLTTFKEYETVSGDWLLLET
FAIFIFGAEFALRIWAAGCCCRYKGWRGRLKFARKPLCMLDIFVLIASVPVAVGNQ
GNVLATSLRSLRFLQILRMLRMDRRGGTWKLLGSAICAHSKELITAWYIGFLTILSS
FLVYLVEKDVPEVDAQGEEMKEEFETYADALWWGLITLATIGYGDKTPKTWEGRLI
AATFSLIGVSFFALPAGILGSGLALKVQEQRQKHFEKRRKPAAELIQAAWRYATN
35 PNRIDL VATWRFYESVVSFPFRKEQLEAASSQKLGLLDRVRLSNPRGSNTKGKLF
LNVDALIEESPSKEPKPVGLNNKERFRTAFRMKAYAFWQSSDAGTGDPMAEDRGY
NDFPIEDMIPTLKAIRAVRILQFRLYKKKFKETLRPYDVKDVEQYSAGHLDMLSRI
KYLQTRIDMIPTPGPPSTPKHKKSQKGSFTYPSQQSPRNEPYVARPSTSEIEDQSM
GKFVKVERQVQDMGKKLDFLVDMMHMQHMERLQVQVTEYYPTKGTSPPAEAEKKE
40 DNRYSDLKTHICNYSETGPPEPPYFQVPIQVPGYFFAHDPVNLPRGGPSSGKVQ
ATPPSSATTYVERPTVLPILTLLDSRVSCHSQADLQGPYSDRISPRQRRSITRDS
DTPLSLMSVNHEELERSPSGFSISQDRDDYVFGPNGGSSWMREKRYLAEGETDTPFT
PSGSMPLSSTGDGISDSVWTPSNKPI

45

SEQ ID NO:8 · Human KvQT3 (partial)